

IN THE CLAIMS

1. (Currently Amended) A method of executing a transaction task within a transaction processing system, the method including:

responsive to an event, identifying a workflow associated with the event;

distributing a task, that at least partially executes the workflow, from a task queue ~~according to a priority dynamically assigned to the task~~ and ~~distributing the task~~ to an available thread within a pool of threads operating within a multiprocessor system, the distributing the task responsive to dynamically assigning a priority to the task;

identifying a processor affinity attributed to the task; and

assigning the available thread to a processor within the multiprocessor system according to the processor affinity attributed to the task.

2. (Original) The method of claim 1 wherein the event comprises a transaction event and the task comprises a transaction task responsive to a transaction request associated with the transaction event.

3. (Original) The method of claim 2 wherein the transaction task comprises a transaction routing task that routes the transaction request associated with the transaction event to an agent of the transaction processing system.

4. (Original) The method of claim 2 within the transaction task comprises a transaction information task to either store or retrieve information pertinent to a transaction.

5. (Original) The method of claim 1 wherein the task has a real-time priority and is distributed in accordance with the real-time priority to the available thread within the pool of threads.

6. (Cancelled)

7. (Original) The method of claim 1 including assigning the available thread to a processor within the multiprocessor system according to a thread priority.

8. (Original) The method of claim 7 including assigning the thread priority to the available thread based on a priority of the task distributed to the available thread.

9. (Currently Amended) Apparatus for executing a transaction task within a transaction processing system, the apparatus comprising:

a dispatcher to identify a workflow associated with an event;

a scheduler to issue a task that at least partially executes the workflow associated with the event, the scheduler to issue the task from a task queue ~~according to a priority dynamically assigned to the task,~~ the scheduler to issue the task responsive to a dynamic assignment of a priority to the task; and

a thread within a pool of threads operating within a multiprocessor system to execute the task,

the dispatcher to identify a processor affinity attributed to the task, and to assign the thread to a processor within the multiprocessor system according to the processor affinity attributed to the task.

10. (Original) The apparatus of claim 9 wherein the dispatcher generates the task that at least partially executes the workflow.

D 11. (Original) The apparatus of claim 10 including a task queue to which the task is dispatch by the dispatcher, and from which the thread within the pool of threads receives the task.

12. (Original) The apparatus of claim 11 including a scheduler that issues the task from the task queue to the thread within the pool of threads.

13. (Previously Amended) The apparatus of claim 12 wherein the scheduler issues the task from the task queue to the thread within the pool of threads based on the priority associated with the task.

14. (Cancelled)

15. (Original) The apparatus of claim 13 wherein the scheduler issues the task from the task queue according to a real-time priority assigned to the task.

16. (Original) The apparatus of claim 9 wherein the task comprises a transaction routing task that routes a transaction request associated with the event to an agent of the transaction processing system.

17. (Original) The apparatus of claim 9 within the task comprises a transaction information task to either store or retrieve information pertinent to a transaction.

18. (Cancelled)

D 19. (Original) The apparatus of claim 9 including to assign the thread to a processor within the multiprocessor system according to a thread priority.

20. (Original) The apparatus of claim 19 including assigning the thread priority to the thread based on a priority of the task distributed to the thread.

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

D₂ 24. (New) The method of claim 1, further including determining a best match between the task and the available thread.

25. (New) The method of claim 1, wherein the available thread is a member of a class of threads that are included in the pool of threads, the class of threads associated with the priority.

26. (New) The apparatus of claim 9, wherein the scheduler determines a best match between the task and the available thread

27. (New) The apparatus of claim 9, wherein the available thread is a member of a class of threads that are included in the pool of threads, the class of threads associated with the priority.
